



Description

Amphenol 44 series connectors offer high performance at low cost for applications requiring environmentally sealed yet inexpensive connectors. 44 series connectors feature an all-resilient, one piece waterproof design incorporating crimp Poke-Home® contacts in six configurations.

Features

- **Environmental Sealing** Water-proof seals (primary, secondary and wire) prevent liquid from entering the connector or causing electric or electronic circuit failures (not intended for submersible applications).
- **High Reliability** Hooded female contacts plus a molded-in polarizing flat assures proper contact/connector alignment and eliminates the possibility of lost or cross-wire circuits.
- **Durable** The resilient connector body is abrasion resistant and impervious to water, lubricants, fuel, ozone and road salts.
- **Long Service** The unique one-piece shell and insert construction minimizes the number of parts and failure modes for predictably long service life.
- **Low Installed Cost** Punch-press contacts permit the use of automated stripping and crimping equipment for lower on-line production and installed assembly cost.
- **Low Maintenance Cost** 44 series connectors can easily be field serviced using inexpensive hand crimp and contact insertion/removal tools, minimizing equipment downtime and maintenance time.
- **Easy Mating** Simple, positive push-pull mating and disconnect require no special assembly instructions. Obvious visual and mechanical mating indicators help avoid damage to components that could result in lost or intermittent circuits.
- **Panel Mounting** 44 series receptacles can be panel mounted, in addition to being used in cable to cable applications.
- **Material** The resilient material used in the Amphenol 44 series connectors proved to be the most resistant to salt spray, shock and vibration. Amphenol Poke-Home® contacts are made of a copper alloy with electrotin plating. The combination of materials provides a highly waterproof connector at a low cost.
- **Available Configurations** 1, 2, 3, 4, 5 and 6 contact configurations are available.
- **Colour** Black

Specifications

Physical Characteristics

Insulation Material : Santoprene, thermoplastic rubber

Contact Material : Copper alloy

Contact Plating : Electrotin

Wire Accommodation: 14, 16 & 18 AWG

Overall Wire Insulation Diameter : 0.080 to 0.130 inches (2.03 to 3.30mm)

Electrical Characteristics

Current Rating : 8 Amps continuous

Voltage Rating : Limiting operation voltage at sea level, 250 Vac RMS

Contact Resistance : < 30 mΩ

Insulation Resistance : > 5,000 MΩ

Dielectric Withstanding Voltage : 1000 VRMS

Mechanical Characteristics

Mating and Unmating Force :

No. of Contacts	Force (lbs)
2	20
3	25
4	30
5	30
6	35

Durability : 25 cycles max.

Vibration : No interruptions < 10 μsec

Contact Retention : axial displacement of contact < 0.03 inch.

Environmental Characteristics

Operating Temperature : -40°C to +105°C

Applications

- Truck accessory disconnects under the hood or frame, on axles, near the engine and in the cab.
- Marine industrial connectors for starter motors, ignition systems, instrumentation and lighting, batteries, controls and fuel injection systems.
- Traffic control equipment connectors for toll booths, railroad gates, traffic signals and highway safety and lighting equipment.
- Automotive safety and security systems, including antiskid braking systems, brake warning indicators, oil pressure indicators, speedometers and burglar alarms.
- RV interconnections between car safety, control systems and trailers or campers.
- Mining ventilation systems and ore car interconnections.

Ordering Information

For Standard Type (Insulation only)

No. of Contacts	Receptacles Part Numbers	Plugs Part Numbers
1	44-104-10001-02	44-103-10001
2	44-104-10002-02	44-103-10002
3	44-104-10003-02	44-103-10003
4	44-104-10004-02	44-103-10004
5	44-104-10005-02	44-103-10005
6	44-104-10006-02	44-103-10006

For Low Insertion Force Type (Insulation only)

No. of Contacts	Receptacles Part Numbers	Plugs Part Numbers
2	44-103-10302	44-103-10302
3	44-103-10303	44-103-10303
4	44-103-10304	44-103-10304
5	44-103-10305	44-103-10305
6	44-103-10306	44-103-10306

Remark : Connector with one contact size is not available in low insertion force type

Contact Part Numbers

Pin Contacts	Socket Contacts	Termination
44-100-1414P-1H(101)	44-102-1414S-1H(101)	(101) deviation specifies contacts removed from reels and individually packaged in bags of 100, 500 or 1000 for hand tool crimping applications
44-100-1414P-5H(101)	44-102-1414S-5H(101)	
44-100-1414P-1K(101)	44-102-1414S-1K(101)	
44-100-1414P-5K	44-102-1414S-5K	Reel of 5000 contacts shipped on carrier strips for use with semi-automatic crimping machine

Automatic Application Tooling

Semi-Automatic Equipment	Part Numbers
Stripper/Crimper	359-2800-1
Contact Crimp Applicator	359-2600-1
Contact Insertion Machine	PN 359-423

Contact Insertion Adapters

Insert Configuration (above)						
	1	2	3	4	5	6
Plug Adapter	359-423-111-01	359-423-111-02	359-423-111-03	359-423-111-04	359-423-111-05	359-423-111-06
Receptacle Adapter	359-423-111-07	359-423-111-08	359-423-111-09	359-423-111-10	359-423-111-11	359-423-111-12

Hand Tools

	Part Numbers
Full Cycle Crimping Tool	357-588
Economy Crimping Tool	357-561

Hand Insertion and Removal Tools

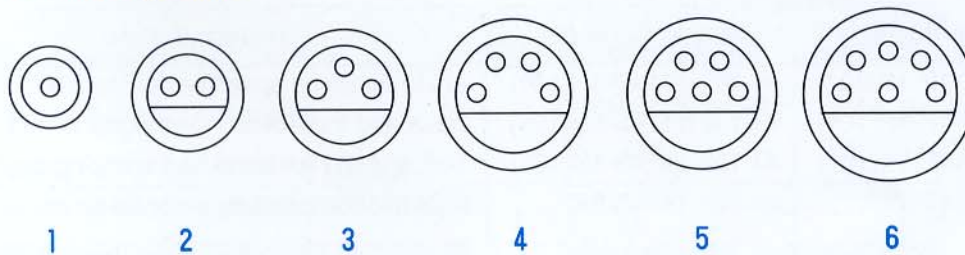
	Contact Part Number	Insertion Tool	Removal Tool
Pin Contact (used with receptable only)	44-100-1414P	356-258	356-259
Socket Contact (used with plugs only)	44-102-1414S	356-258	356-260

Remark : General contact part number for reference only

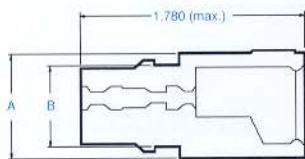
Dimensions

No. of Contacts	A Dia. Ref (Inches)	B Dia. Ref (Inches)
1	0.497	0.440
2	0.607	0.470
3	0.708	0.570
4	0.819	0.682
5	0.819	0.682
6	0.933	0.796

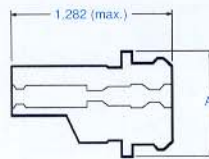
Insert Configurations



Standard Type

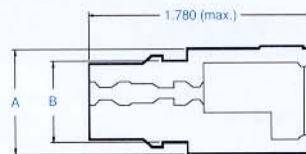


Receptacle

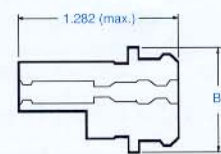


Plug

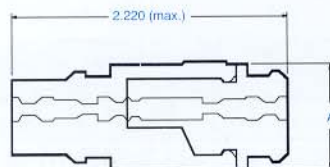
Low Insertion Force Type



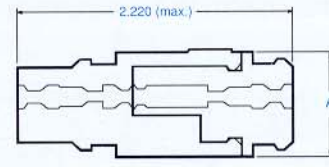
Receptacle



Plug



Mated



Mated

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